

CLAIMS

1. A method of enabling a multitasking computing device to preserve system
5 resources, comprising the steps of determining if an untrusted application is in the
background or foreground and preventing an untrusted application that is in the
background from running.
2. The method of Claim 1 in which a window server component determines if the
10 untrusted application is in the background or foreground.
3. The method of Claim 2 in which, for an untrusted application in the background,
the window server sends a control signal to a scheduler or interrupt handler to prevent
the application from running.
- 15 4. The method of Claim 1 comprising the further step of preventing an untrusted
background application from 'polling' for data over a wireless network.
5. The method of Claim 1 comprising the further step of preventing an untrusted
20 background application from running if a display shows a screen saver or is turned off.
6. The method of Claim 1 in which a trusted application in the background is (i) still
allowed to run, or (ii) actively prevented from running or (iii) requested to stop running .
- 25 7. The method of Claim 1 in which an application has been deemed to be
untrusted by the device assessing:
 - (a) which protected resources on the device can be accessed by the application; or
 - (b) whether the application was loaded from ROM or RAM; or
 - (c) whether the application has been validated using some predefined validation or
30 certification process.
8. The method of Claim 7 in which a background application is prevented from
running only if it does not meet predefined 'trust' or certification criteria established
using a signature in an installation file for the application.

9. The method of Claim 1 in which the device is battery powered.
10. The method of Claim 1 in which the system resources that are preserved are one
5 or more of (i) power, (ii) CPU activity and (iii) scheduler activity.
11. The method of Claim 1 in which the device is powered by a UPS (uninterruptible power supply).
- 10 12. A multitasking computing device programmed to be capable of determining if an untrusted application is in the background or foreground and preventing an untrusted application that is in the background from running in order to conserve system resources.
- 15 13. The device of Claim 11 which is battery powered.
14. An operating system for a multitasking computing device, the operating system being capable of determining if an untrusted application is in the background or foreground and preventing an untrusted application that is in the background from
20 running in order to conserve system resources.